

SECRET

31 December 1969

MEMORANDUM FOR THE RECORD

SUBJECT: Trip [REDACTED]

25X1

1. [REDACTED] RED/ATB/EL, visited [REDACTED] Dayton, Ohio, on 11 and 12 December 1969 to discuss the T&M (S) 70. [REDACTED]

25X1

25X1

2. Two areas of study were discussed for work under this contract, both in evaluation of the SO 242 color material. The programs discussed concerned the colormetric response of this material and its mensuration properties. With the funds available only one of these areas could be examined.

3. The colormetric response of the SO 242 is a representation of the color reproduction properties of this material. A technique used by [REDACTED] in work for NASA involved generating a matrix of dye combinations of the three layers and plotting these combinations on the C.I.E. chromaticity scale. In so doing, one can determine the maximum saturation colors the film can produce, and more significantly, readily convert from three color Macbeth densitometer readings to C.I.E. chromaticity values. This latter technique is invaluable in plotting colors and color differences. The techniques are relatively straight forward but determination of proper exposure intensity and wavelength is time consuming. A proposal for this effort is being prepared and should be available the second week of January. Persons involved in this discussion [REDACTED]

25X1

25X1

25X1

4. The mensuration capability of color film was discussed and approached from the direction of: what is a limited program that could provide some meaningful results. With the many combinations of object color, density level and contrast, choice of a suitable target and parameters to control is very difficult. [REDACTED] are now preparing a proposal on this subject. [REDACTED]

25X1

25X1

25X1

TSSG/RED/ATB/EL

Distribution:

Orig. - Route & File

1 - RED

1 - RED/ATB/EL (Chrono

SECRET